

SUGGESTION EVALUATION

For use of this form, see AR 5-17; the proponent agency is OCSA.

TO: (Include ZIP Code)

U.S. Army Maneuver Support Center and Fort Leonard Wood
320 Engineer Loop, Suite 316
ATTN: ATZT-SPAR (Michelle Dailing)
Fort Leonard Wood, MO 65473-8929

FROM: (Include ZIP Code)

HQDA (ACSIM)
7701 Telegraph and Leaf Roads
ATTN: DAIM-FDF-FE (Bruce A. Park)
Alexandria, VA 22315-3800

1. SUGGESTION TITLE Army Ideas of Excellence Program (AIEP) Proposal TCLWOO4661,
Propane/Water Fire Burn Barrel(Reconsideration of 10 Mar 00 Disapproval)

2. SUGGESTION NUMBER
TCLWOO4661

ACTION TAKEN OR RECOMMENDED

a. APPROVED FOR ADOPTION

☒ TOTALLY

☐ PARTIALLY OR WITH MODIFICATION (Explain in Item 4.)

DATE SUGGESTION WAS OR WILL BE PUT INTO EFFECT:
Immediately

☐ ALSO RECOMMEND CONSIDERATION FOR WIDER APPLICATION
AS INDICATED IN ITEM 4.

b. ALREADY IN USE OR UNDER CONSIDERATION (Explain in Item 4, indicating whether this suggestion contributed to the action in any way.)

c. NOT APPROVED FOR ADOPTION FOR REASONS SHOWN IN ITEM 4.

d. RECOMMEND ADOPTION, BUT APPROVAL NOT WITHIN JURISDICTION OF THIS OFFICE. (Explain in Item 4.)

e. OTHER (Specify in Item 4.)

4. REASONS FOR ACTION TAKEN OR RECOMMENDED. Include a statement as to how the suggestion was or will be implemented if it is adopted.
(If more space is needed, continue on reverse.)

Based on additional information provided by the enclosed U.S. Army Maneuver Support Center and Fort Leonard Wood memo dated 2 Jun 00 (same subject), we concur with your recommendation to allow use of this propane fueled "training" device at Army installations. However, fire departments must certify that military training units and Boy Scout organizations using this device at other than fire extinguisher training classes have also received the proper training. We will FAX a copy of this suggestion to all MACOMS for distribution to their fire and emergency services organizations.

Enclosure

5. BENEFITS (Complete for all suggestions adopted or recommended for adoption.)

a. ☐ TANGIBLE (Show actual or estimated dollar savings, including the cost of conversion and first year savings.)

(1) FACTORS	LABOR			MATERIEL			TOTAL COST OF LABOR AND MATERIEL
	MANHOURS INVOLVED	COST PER MANHOUR	TOTAL COST	NUMBER OF UNITS	COST PER UNIT	TOTAL COST	
FORMER METHOD							
NEW METHOD							

(2) COST OF CONVERTING TO NEW METHOD:

LABOR \$

MATERIEL \$

TOTAL \$

☐ ACTUAL ☐ ESTIMATED

TOTAL DOLLAR BENEFITS

(3) TOTAL FIRST YEAR NET DOLLAR BENEFITS (Labor and materiel savings less cost of conversion.)

\$ - \$ = \$

b. ☒ INTANGIBLE (Describe effect on operations, health, safety, welfare, or morale; and number of people and specific organizations affected. Based on criteria in paragraph 2-8, AR 672-20, indicate the value of the benefit and the extent of application.)

(1) VALUE OF BENEFIT IS:

☐ MODERATE

☐ SUBSTANTIAL

☒ HIGH

☐ EXCEPTIONAL

(2) EXTENT OF APPLICATION:

☐ LIMITED

☐ BROAD

☒ EXTENDED

☐ GENERAL

(3) EXPLAIN THE FACTORS SELECTED IN (1) AND (2). INDICATE AMOUNT OF AWARD RECOMMENDED FOR INTANGIBLE BENEFITS.

Recommend the maximum monetary award of \$1,000 under a "HIGH" value to public and "EXTENDED" application at our installations.

6. DATE

28 June 2000

7. NAME, TITLE & TELEPHONE EXTENSION OF
EVALUATOR Bruce A. Park, Dir/F&ES,
DSN 328-6174, (703) 428-6174, or e-mail:
bruce.park@hqda.army.mil

8. SIGNATURE & TITLE OF RESPONSIBLE OFFICIAL

JOHN B. NERGER, DIR, FACS & HSG DIRECT

DA FORM 2440, OCT 83

EDITION OF 1 JUN 72 WILL BE USED.

USAPPC V2.00



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY MANEUVER SUPPORT CENTER AND FORT LEONARD WOOD
320 ENGINEER LOOP STE 316
FORT LEONARD WOOD, MO 65473-8929

ATZT-SPAR (5-17b)

02 JUN 2000

MEMORANDUM FOR Headquarters, Department of the Army, Office of the Assistant Chief of Staff for Installation Management, ATTN: DAIM-ZX (Ms. Taylor), Room 1E676, 600 Army Pentagon, Washington D.C. 20310-0600

SUBJECT: Army Ideas for Excellence Program (AIEP) Proposal TCLWOO4661, Propane/Water Fire Burn Barrel

1. Request the Fire and Emergency Services Directorate, Facilities Policy Division, Office of the Assistant Chief of Staff for Installation Management, reconsider their evaluation (Encl 1) of subject Army Ideas for Excellence Program proposal (Encl 2) for reasons stated in paragraph two below. Also enclosed is the installation proponent supporting evaluation (Encl 3) for the proposal.
2. The statement in your evaluation that the typical installation fire department or facility engineering organization does not have the expertise to assemble/fabricate this type of device is not correct. The suggester is a firefighter/inspector from our local installation fire department. He built this device from hardware store parts. A parts list is attached with the DA Form 1045. He can be contacted for details on fabrication. The idea could be approved for Army-wide adoption and the idea with details on fabrication placed in PS magazine for other installation/units to be made aware of the idea and make use of it if they desire. The U.S. Army Tank-Automotive and Armaments Command, Army Materiel Command, uses this method regularly to get unconventional ideas and quick fixes out to the field. This device is so much safer to utilize and environmentally friendly compared to the old method, we feel it is very important that other installations be given the opportunity to switch to this method if they desire.
3. Your consideration is greatly appreciated.
4. POC is Michelle Dailing at E-Mail DAILINGM@WOOD.ARMY.MIL or DSN 676-6134.

3 Encl
as

MARK A. PREMONT
Executive Officer, SPAR

SUGGESTION EVALUATION

For use of this form, see AR 5-17; the proponent agency is OCSA.

TO: (Include ZIP Code) U.S. Army Mancurver Support Center and Fort Leonard Wood 320 Engineer Loop, Suite 316 ATTN: ATZT-SPAR (Michelle Dailing) Fort Leonard Wood, MO 65473-8929	FROM: (Include ZIP Code) HQDA(ACSIM) 7701 Telegraph and Leaf Roads ATTN: DAIM-FDF-FE (Bruce A. Park) Alexandria, VA 22315-3800
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1. SUGGESTION TITLE Army Ideas of Excellence Program (AIEP) Proposal TCLWOO4661, Propane/Water Fire Burn Barrel	2. SUGGESTION NUMBER TCLWOO4661
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3. ACTION TAKEN OR RECOMMENDED	
a. <input type="checkbox"/> APPROVED FOR ADOPTION <input type="checkbox"/> TOTALLY <input type="checkbox"/> PARTIALLY OR WITH MODIFICATION (Explain in Item 4.) DATE SUGGESTION WAS OR WILL BE PUT INTO EFFECT: Immediately <input type="checkbox"/> ALSO RECOMMEND CONSIDERATION FOR WIDER APPLICATION AS INDICATED IN ITEM 4.	
b. ALREADY IN USE OR UNDER CONSIDERATION (Explain in Item 4, indicating whether this suggestion contributed to the action in any way.)	
<input checked="" type="checkbox"/> c. NOT APPROVED FOR ADOPTION FOR REASONS SHOWN IN ITEM 4.	
d. RECOMMEND ADOPTION, BUT APPROVAL NOT WITHIN JURISDICTION OF THIS OFFICE. (Explain in Item 4.)	
e. OTHER (Specify in Item 4.)	

4. REASONS FOR ACTION TAKEN OR RECOMMENDED. Include a statement as to how the suggestion was or will be implemented if it is adopted. (If more space is needed, continue on reverse.)
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The fire barrel is a creative method to conduct fire extinguisher training classes using propane which is an environmentally friendly, non fossil-fuel. However, the typical installation fire department or facility engineering organization does not have the expertise to assemble/fabricate this type of device and the training to properly use it. We appreciate the suggester's interest in improving fire extinguisher training for Army personnel and encourage his/her continued participation in the AIEP.

5. BENEFITS (Complete for all suggestions adopted or recommended for adoption.)
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a. <input type="checkbox"/> TANGIBLE (Show actual or estimated dollar savings, including the cost of conversion and first year savings.)
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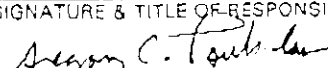
(1) FACTORS	LABOR			MATERIEL			TOTAL COST OF LABOR AND MATERIEL
	MANHOURS INVOLVED	COST PER MAN-OUR	TOTAL COST	NUMBER OF UNITS	COST PER UNIT	TOTAL COST	
FORMER METHOD							
NEW METHOD							
TOTAL DOLLAR BENEFITS							

(2) COST OF CONVERTING TO NEW METHOD: LABOR \$ _____ MATERIEL \$ _____ TOTAL \$ _____ <input type="checkbox"/> ACTUAL <input checked="" type="checkbox"/> ESTIMATED	(3) TOTAL FIRST YEAR NET DOLLAR BENEFITS (Labor and materiel savings less cost of conversion.) \$ _____ - \$ _____ = \$ _____
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b. <input type="checkbox"/> INTANGIBLE (Describe effect on operations, health, safety, welfare, or morale; and number of people and specific organizations affected. Based on criteria in paragraph 2-8, AR 672-20, indicate the value of the benefit and the extent of application.)

(1) VALUE OF BENEFIT IS: <input type="checkbox"/> MODERATE <input type="checkbox"/> SUBSTANTIAL <input type="checkbox"/> HIGH <input type="checkbox"/> EXCEPTIONAL	(2) EXTENT OF APPLICATION: <input type="checkbox"/> LIMITED <input type="checkbox"/> EXTENDED <input type="checkbox"/> BROAD <input type="checkbox"/> GENERAL
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(3) EXPLAIN THE FACTORS SELECTED IN (1) AND (2). INDICATE AMOUNT OF AWARD RECOMMENDED FOR INTANGIBLE BENEFITS.
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6. DATE 10 March 2000	7. NAME, TITLE & TELEPHONE EXTENSION OF EVALUATOR Bruce A. Park, Dir/F&ES, DSN 328-6174, (703) 428-6174, or e-mail: bruce.park@hqda.army.mil	8. SIGNATURE & TITLE OF RESPONSIBLE OFFICIAL  JOHN J. KRAJEWSKI, CH, FACS POLICY DIV
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Rec: 14 DEC 1999

SUGGESTION EVALUATION

For use of this form, see AR 5-17; the proponent agency is OCSA.

TO: (Include ZIP Code)

Directorate of Resource Management
ATTN: ATZT-RM-MD-A
AIEP Coordinator
Fort Leonard Wood MO 65473

FROM: (Include ZIP Code)

Fire & Emergency Services Division
Directorate of Public Works
1334 First Street
Fort Leonard Wood MO 65473-8944

1. SUGGESTION TITLE

Propane/Water Fire Barrel

2. SUGGESTION NUMBER

TCLW004661

3.

ACTION TAKEN OR RECOMMENDED

a. APPROVED FOR ADOPTION

☒ TOTALLY☐ PARTIALLY OR WITH MODIFICATION (Explain in Item 4.)

DATE SUGGESTION WAS OR WILL BE PUT INTO EFFECT:

☒ ALSO RECOMMEND CONSIDERATION FOR WIDER APPLICATION AS INDICATED IN ITEM 4.

b. ALREADY IN USE OR UNDER CONSIDERATION (Explain in Item 4, indicating whether this suggestion contributed to the action in any way.)

c. NOT APPROVED FOR ADOPTION FOR REASONS SHOWN IN ITEM 4.

d. RECOMMEND ADOPTION, BUT APPROVAL NOT WITHIN JURISDICTION OF THIS OFFICE. (Explain in Item 4.)

e. OTHER (Specify in Item 4.)

4. REASONS FOR ACTION TAKEN OR RECOMMENDED. Include a statement as to how the suggestion was or will be implemented if it is adopted. (If more space is needed, continue on reverse.)

The device outlined in the attached suggestion has been in use with in the fire department at FT. Leonard Wood for over a year now and in that time has seen much use. The unit has many advantages over the way that fire extinguisher training classes used to be accomplished. The new unit contributes no hydrocarbon smoke to the atmosphere and there is no hazardous waste to dispose of after the training is complete. Therefore, it is environmentally friendly.

Also, the unit is much safer than was the old method of lighting a diesel/gasoline mixture fire was. This device can be shut off immediately if the wind changes, the student has difficulty extinguishing the fire, or if other safety factors were to arise. The unit is also much safer than are bon fires used on post for other reasons. You do not have much control over bon fires, again this unit can be shut off immediately if anyone's safety is in jeopardy.

The unit costs \$228. This includes the LP gas tank, black pipe and fittings, and LP gas rated hose.

I feel that this unit can be used by fire departments all over the United States, as well as the world, to accomplish fire extinguisher training safely and inexpensively with no environmental pollution. The unit used on post has been used many, many times over the course of the past year and has experienced no malfunctions or problems of any type. The unit, if handled properly, should last for 10 years or more.

5.

BENEFITS (Complete for all suggestions adopted or recommended for adoption.)

a. ☐ TANGIBLE (Show actual or estimated dollar savings, including the cost of conversion and first year savings.)

(1) FACTORS	LABOR			NUMBER OF UNITS	MATERIAL		TOTAL COST OF LABOR AND MATERIAL
	MANHOURS INVOLVED	COST PER MANHOUR	TOTAL COST		COST PER UNIT	TOTAL COST	
FORMER METHOD							
NEW METHOD							
TOTAL DOLLAR BENEFITS							

(2) COST OF CONVERTING TO NEW METHOD:

LABOR \$

MATERIAL \$

TOTAL \$

☐ ACTUAL☐ ESTIMATED

(3) TOTAL FIRST YEAR NET DOLLAR BENEFITS (Labor and material savings less cost of conversion.)

\$ - \$

b. ☒ INTANGIBLE

(Describe effect on operations, health, safety, welfare, or morale; and number of people and specific organizations affected. Based on criteria in paragraph 2.8, AR 672-20, indicate the value of the benefit and the extent of application.)

(1) VALUE OF BENEFIT IS:

☐ MODERATE☐ SUBSTANTIAL☒ HIGH☐ EXCEPTIONAL

(2) EXTENT OF APPLICATION:

☐ LIMITED☐ BROAD☒ EXTENDED

GENERAL

(3) EXPLAIN THE FACTORS SELECTED IN (1) AND (2). INDICATE AMOUNT OF AWARD RECOMMENDED FOR INTANGIBLE BENEFITS.

I think that the suggestion has a high value with general extent of application. I recommend approval at this level. It is a great benefit to our public fire training program because it allows the people to extinguish a fire using a fire extinguisher without the danger or pollution.

\$750.00

I Recommend a monetary award of \$2,500.

6. DATE

7 December 1999

7. NAME, TITLE & TELEPHONE EXTENSION OF EVALUATOR

Robert R. Woody, Fire Chief, 6-0886

8. SIGNATURE & TITLE OF RESPONSIBLE OFFICIAL

HAL K. ALGUIRE
LTC, EN, Director of Public Works

Encl 3

ARMY IDEAS FOR EXCELLENCE PROGRAM (AIEP) PROPOSAL

For use of this form, see AR 5-17, the proponent agency is OCSA
(See Privacy Act Statement and Instructions on Reverse. DO NOT FORWARD TOP PORTION TO EVALUATOR.)

1. Suggester Information

a. NAME OF SUGGESTER (Last, First, MI) Rogers, John A.		b. SSN 322-42-9543	c. GRADE GS-07
d. POSITION Fire and Emergency Services		e. TITLE Fire Inspector	
f. INSTALLATION OR ACTIVITY (Complete office address) Fort Leonard Wood Mo.			g. OFFICE TELEPHONE (AV and Commercial) 573-596-0886
h. HOME ADDRESS (If you prefer to have communications on the suggestion sent to that address) Rt#1 Box 14-B Stoutland Mo. 65567		i. SUGGESTER'S STATUS <input checked="" type="checkbox"/> Direct Hire Civilian <input type="checkbox"/> Indirect-Hire Local National <input type="checkbox"/> Active Military <input type="checkbox"/> Other (Specify)	

2. I, the suggester, acknowledge the following:

The acceptance by me of a cash award or other form of recognition for this suggestion shall constitute an agreement that the use of the suggestion by the United States shall not form the basis of a further claim of any nature upon the United States by me, my heirs, or assigns.

a. SIGNATURE OF SUGGESTER

b. DATE

John A. Rogers
9 Aug 1999

3. Suggestion Information

a. SUBJECT OF SUGGESTION Propane/Water Fire Burn Barrel	b. PRESCRIBING DIRECTIVE AND DATE (If applicable) AR 420-90, 10 Oct 97	c. SUGGESTION NO. TCLW004661
d. DESCRIBE CURRENT PROCEDURE (If more space is needed, continue on a separate sheet.) 1. Past practice for fire extinguisher training/demonstrations involved the use of diesel fuel, gasoline, and wood in a barrel. Contents would be ignited using flares. Personnel would put out the fire using a fire extinguisher. Then, the burn barrel would be re-ignited. Upon completion of training, disposal of fuels is always a problem. 2. The "Rights of Passage" ceremony by training units (past practice) included the burning of trees, pallets, lumber, etc. for a bon fire in a remote location on the installation. 3. The Boy Scouts, among other organizations, typically have bonfires here on post.		
e. DESCRIBE PROPOSED PROCEDURE A prototype propane/water fire burn barrel was fabricated for use in fire extinguisher training. (See attached) Propane is fed through hoses, etc. into a water-filled tank. Since the propane is lighter than the water, it floats to the top of the water and actually burns 'on the water.' Personnel being trained can safely practice extinguishing fires in a contained area. Operators include one individual manning the propane tank and another person to re-ignite after each extinguishment. There are no contaminants and the water can simply be poured down a drain. The prototype was recently used successfully by a training unit for the 'Rights of Passage' ceremony. Burn barrels could be constructed and maintained by training unit supply rooms, allowing them to support a variety of activities.		

f. BENEFITS IF ADOPTED

Reduced number of control burns (reduction in notification requirements for EPA/Fire Department, etc.).
No disposal of fuels required.
Reduction of air pollutants.
Minimizes personnel injuries.
Reduced potential for grass/forest fires.

4. Program Coordinator Acknowledgment

Thank you for your suggestion. It has been assigned a number (shown in block 5c above). Your suggestion will be given careful consideration and you will be kept advised as to action taken.

a. SIGNATURE

b. DATE

Michael J. Dan 23 AUG 99

Data Required by the Privacy Act of 1974

Authority: 10 USC 1124 and 5 USC 4502.

Principal Purposes: (a) In processing payment of cash awards to personnel, the Social Security Number (SSN) is used by the Finance and Accounting Office (F&AO) for reporting withholding tax to the Internal Revenue Service, and

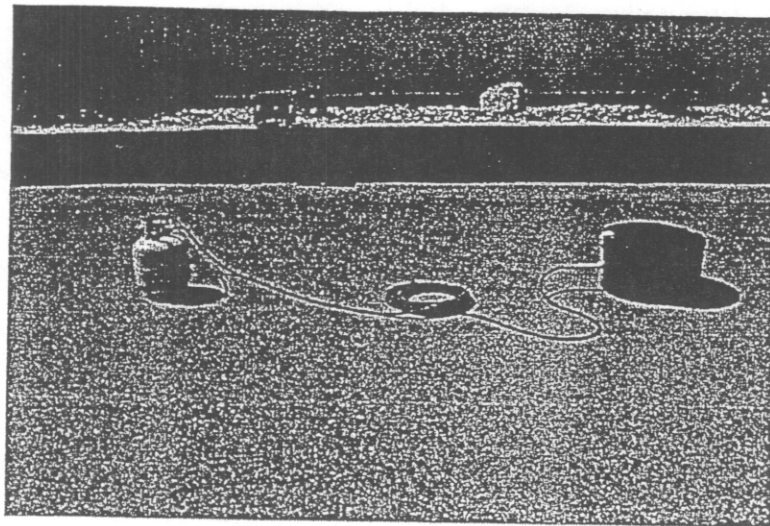
(b) Either office address or home address is required so that the suggester may be advised of the suggestion and results of action taken.

Routine Uses: The SSN is used for identification of pay and personnel records, and forwarding address for military personnel. The home address is used to notify employees of actions pertaining to suggestions.

Disclosure: Disclosure of the SSN and other personal information is voluntary. However, failure to provide the SSN may result in delay of payment of a cash suggestion award. Failure to provide the home address would result in acknowledgment and evaluation reports being sent to the individual's employing office.

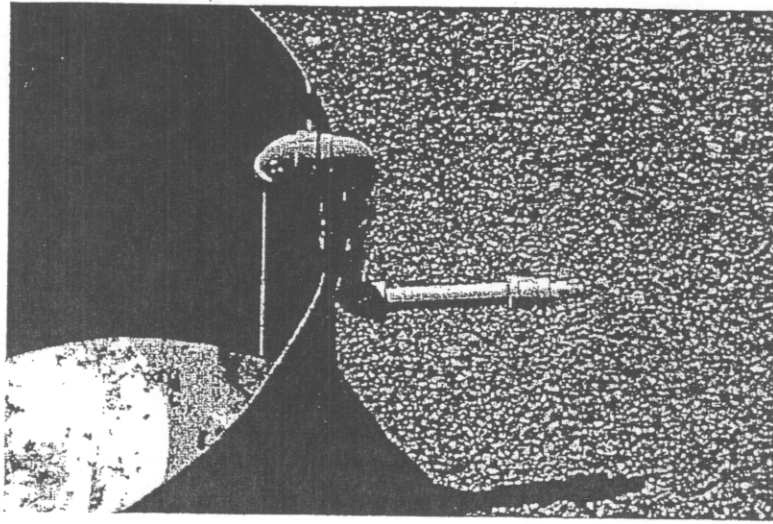
INSTRUCTIONS FOR COMPLETION AND PROCESSING

1. Suggester:
 - a. Complete all items except block 3c and 4.
 - b. Submit original copy to the Program Coordinator, Director of Resource Management, who will assign a number to your suggestion and return an acknowledgment of receipt to you.
 - c. Retain Copy 2 for your records.
 2. Program Coordinator:
 - a. Complete blocks 3c and 4.
 - b. Immediately acknowledge receipt to the Suggester in the address specified in item 1f OR 1h.
-

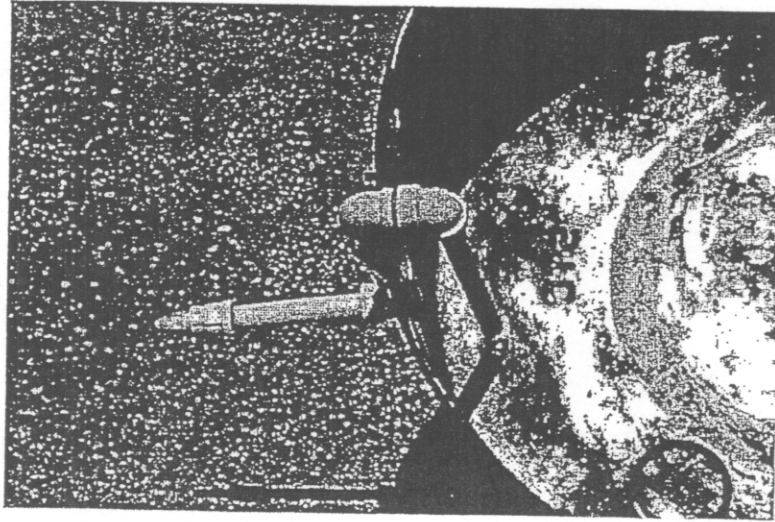


THIS PICTURE ILLUSTRATES THE COMPLETE SETUP OF THE FIRE BARREL THAT IS USED FOR FIRE EXTINGUISHER DEMONSTRATIONS. THE COMPONENTS SHOWN ABOVE ARE:

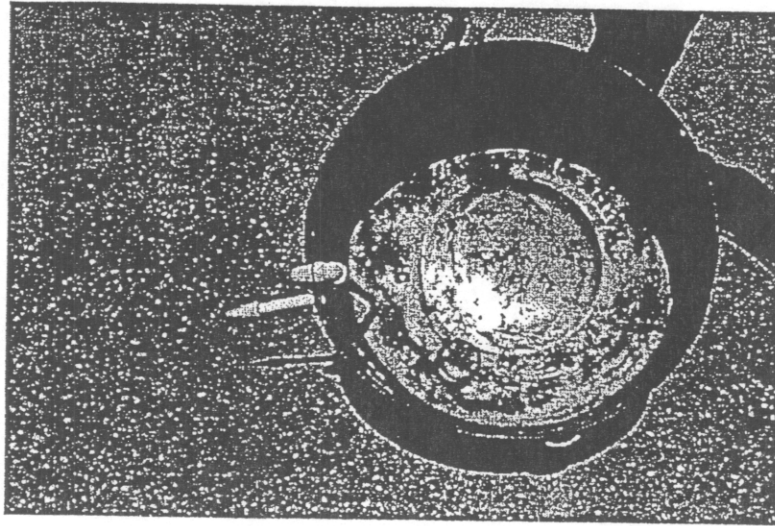
- 1 EA. PROPANE TANK/WITH CONNECTOR
- 50 FT. OF HIGH PRESSURE HOSE
- 2 EA. 6" X 3/8" STRAIGHT BLACK PIPE
- 3 EA 3/8" ELBOWS
- 1 EA 3/8" NIPPLE
- 1 EA 8"X 3/8" STRAIGHT BLACK PIPE
- 1 EA 3/8" X 1/4" REDUCER
- 1 EA 1/3 OF A 55-GALLON DRUM



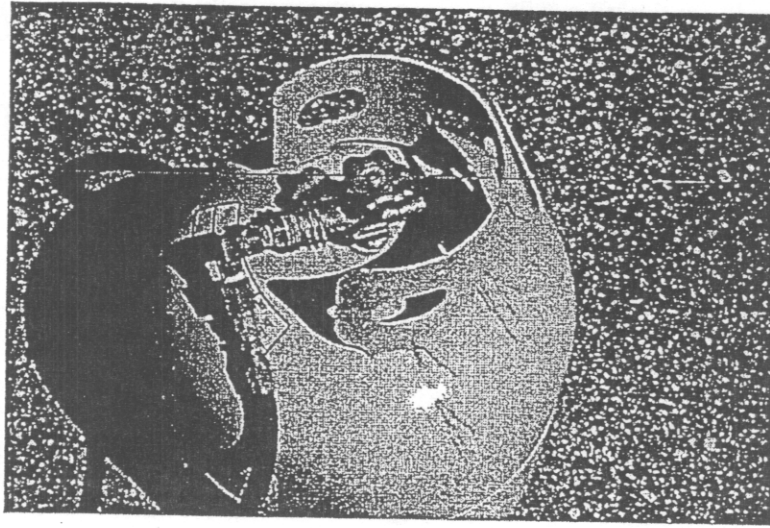
THIS PICTURE SHOWS THE BRACKET THAT HOLDS THE PROPANE FEED IN THE FIRE BARREL. THE BRACKET IS ATTACHED TO THE BARREL TO KEEP IT FROM FALLING OUT AND CAUSING A HAZARD.



THIS PICTURE SHOWS THE DISTANCE THE PROPANE FEED SHOULD BE FROM THE BOTTOM OF THE FIRE BARREL. IT SHOULD BE AT LEAST 1 INCH FROM THE BOTTOM ALLOWING THE PROPANE TO FLOW FREELY INTO THE WATER.



THIS PICTURE SHOWS THE BOTTOM 1/3 OF A 55-GALLON DRUM THAT HAS BEEN CUT OFF. WHICH HOLDS THE WATER FOR THE PROPANE TO BURN ON.



THIS PICTURE SHOWS THE PROPANE TANK AND THE CONNECTOR.
THE CONNECTOR IS ATTACHED TO THE CONTROL VALVE ON THE
PROPANE TANK. THE HOSE IS ATTACHED TO THE CONNECTOR
WHICH RUNS TO THE PROPANE FEED INTO THE BARREL.